

MULTIPLE-FREQUENCY ANTENNA STRUCTURE

Abstract

A multiple-frequency antenna includes a circuit board of dielectric material having a first surface and a second surface which is spaced apart from and is substantially parallel to the first surface, a ground plane layer of electrically conductive material covering a portion of the first surface of the circuit board, and a feed-line of electrically conductive material disposed on the second surface of the circuit board so as to extend over the ground plane layer. A first radiating element of electrically conductive material is disposed on the circuit board and electrically connected to the feed-line. A second radiating element of electrically conductive material is disposed on the circuit board in close proximity to the first radiating element for coupling with the first radiating element, the coupling providing an electromagnetic feed to the second radiating element.